FIG. 1A
PRIOR ART

FIG. 1B
PRIOR ART

FIG. 1C
PRIOR ART

FIG. 1D
PRIOR ART

SCANNED CLIENT

FIG. 2

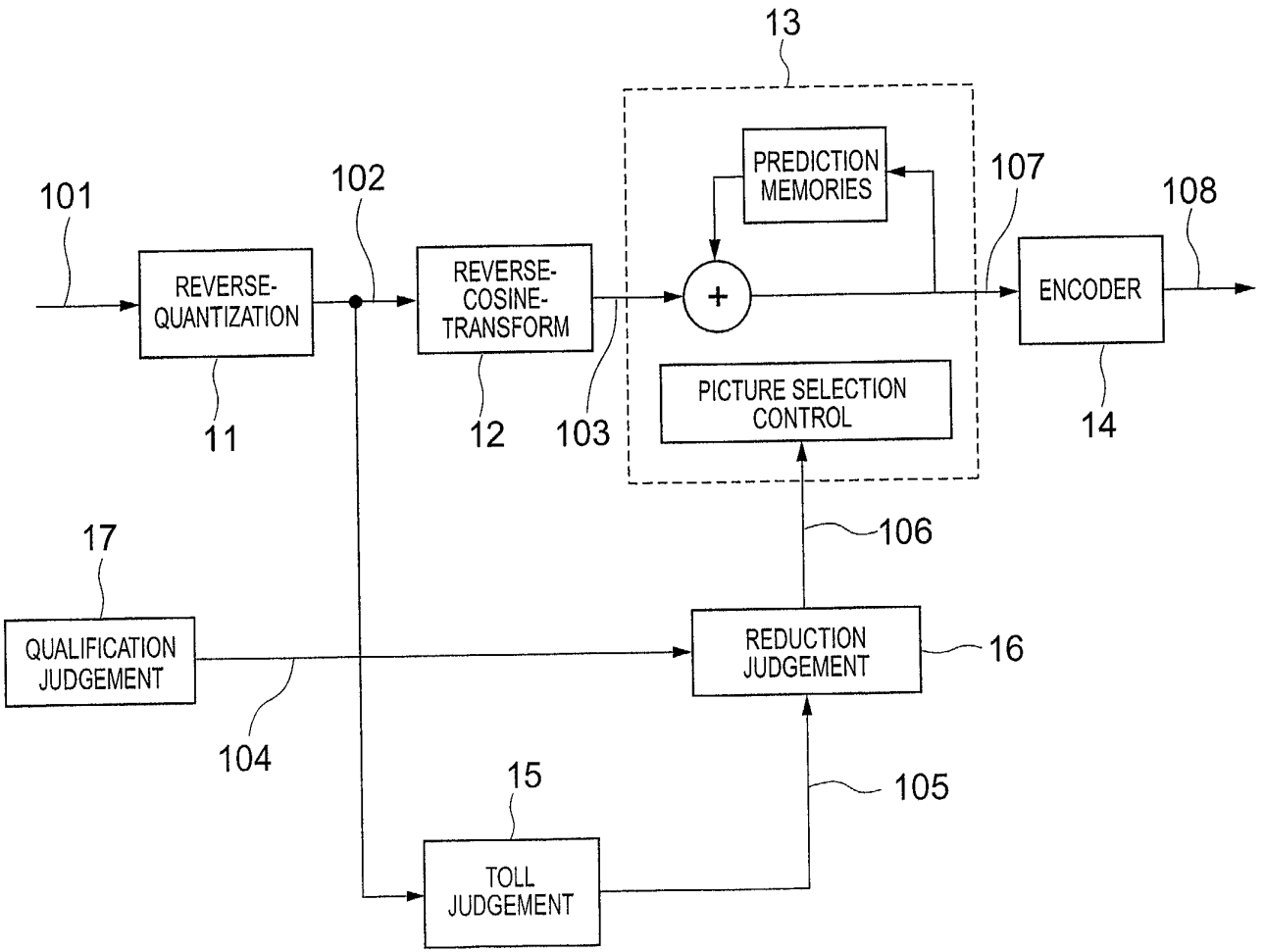

13
PREDICTION MEMORIES
101
102
107
108
REVERSE-QUANTIZATION
REVERSE-COSINE-TRANSFORM
+
ENCODER
PICTURE SELECTION CONTROL
11
12
103
14
17
106
QUALIFICATION JUDGEMENT
REDUCTION JUDGEMENT
16
104
15
105
TOLL JUDGEMENT

FIG. 3

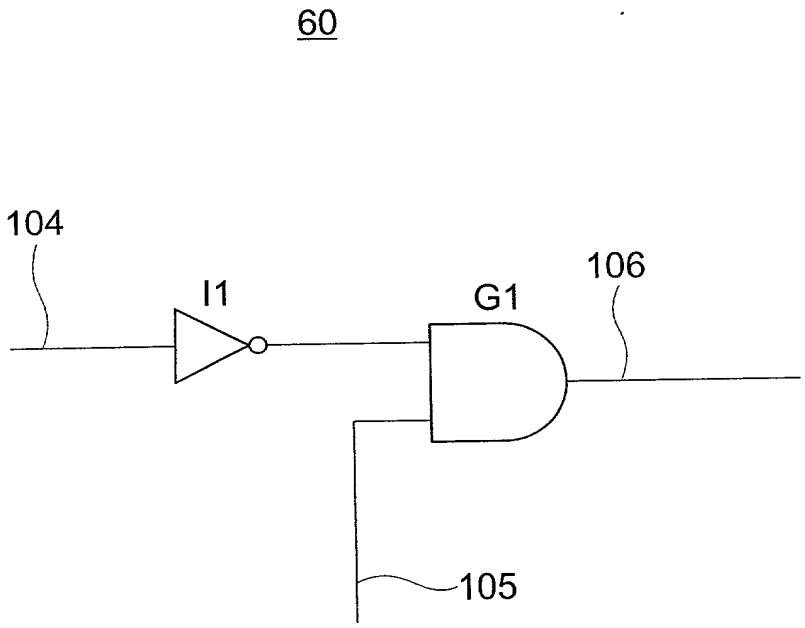


FIG. 4

QUALIFICATION JUDGEMENT SIGNAL 104	TOLL JUDGEMENT SIGNAL 105	REDUCTION CONTROL SIGNAL 106
QUALIFIED USER (H)	NO ELECTRONIC WATERMARK OR NO TOLL INFORMATION (L)	DISPLAY NORMAL PICTURE (L)
	TOLL INFORMATION (H)	
UNQUALIFIED USER (L)	NO ELECTRONIC WATERMARK OR NO TOLL INFORMATION (L)	
	TOLL INFORMATION (H)	DISPLAY REDUCED PICTURE (H)

FIG. 5

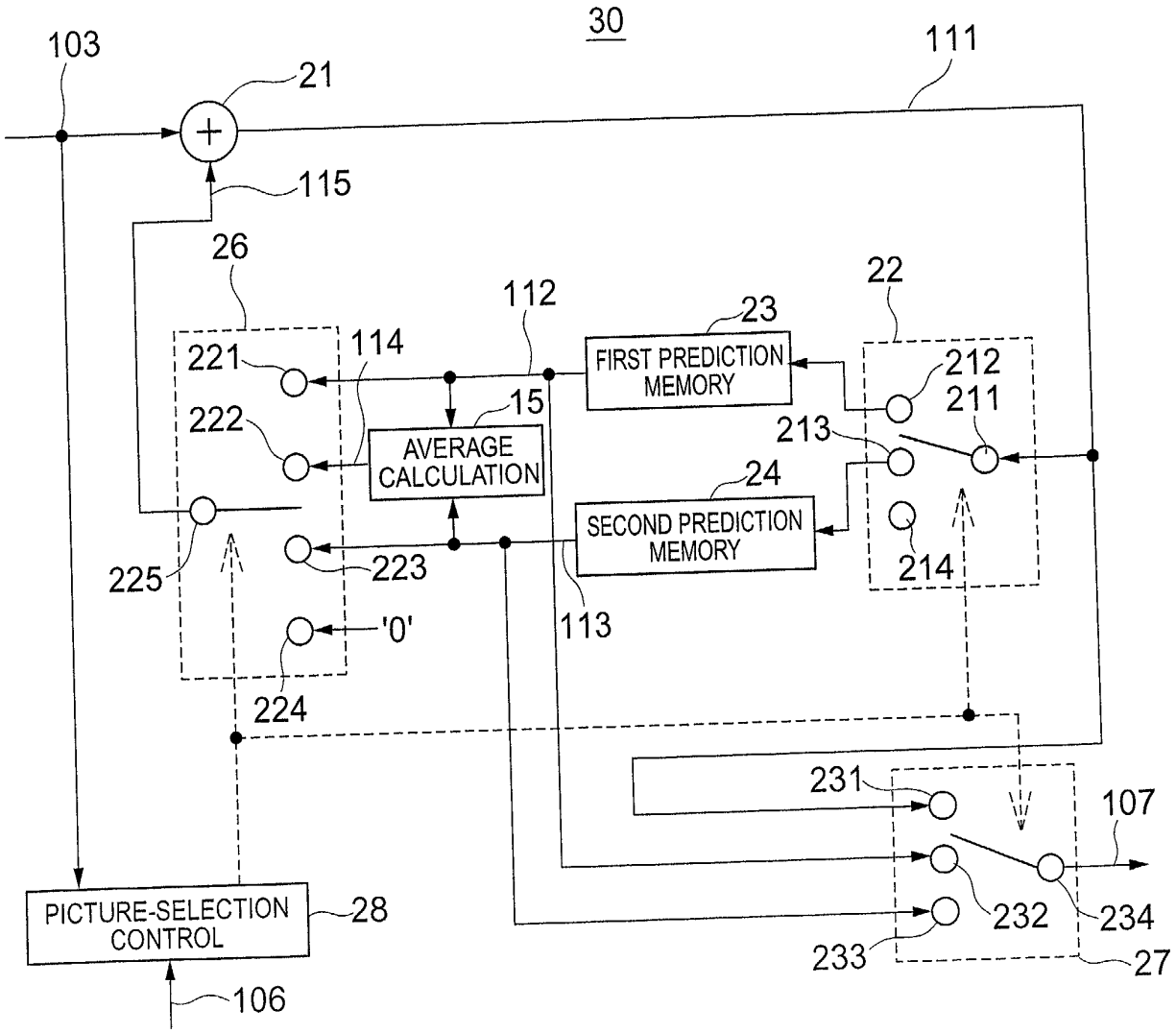

30
103
21
111
115
26
112
22
23
221
114
FIRST PREDICTION MEMORY
212
211
222
15
AVERAGE CALCULATION
213
24
SECOND PREDICTION MEMORY
225
223
214
'0'
113
224
231
107
232
234
233
27
PICTURE-SELECTION CONTROL
28
106

FIG. 6

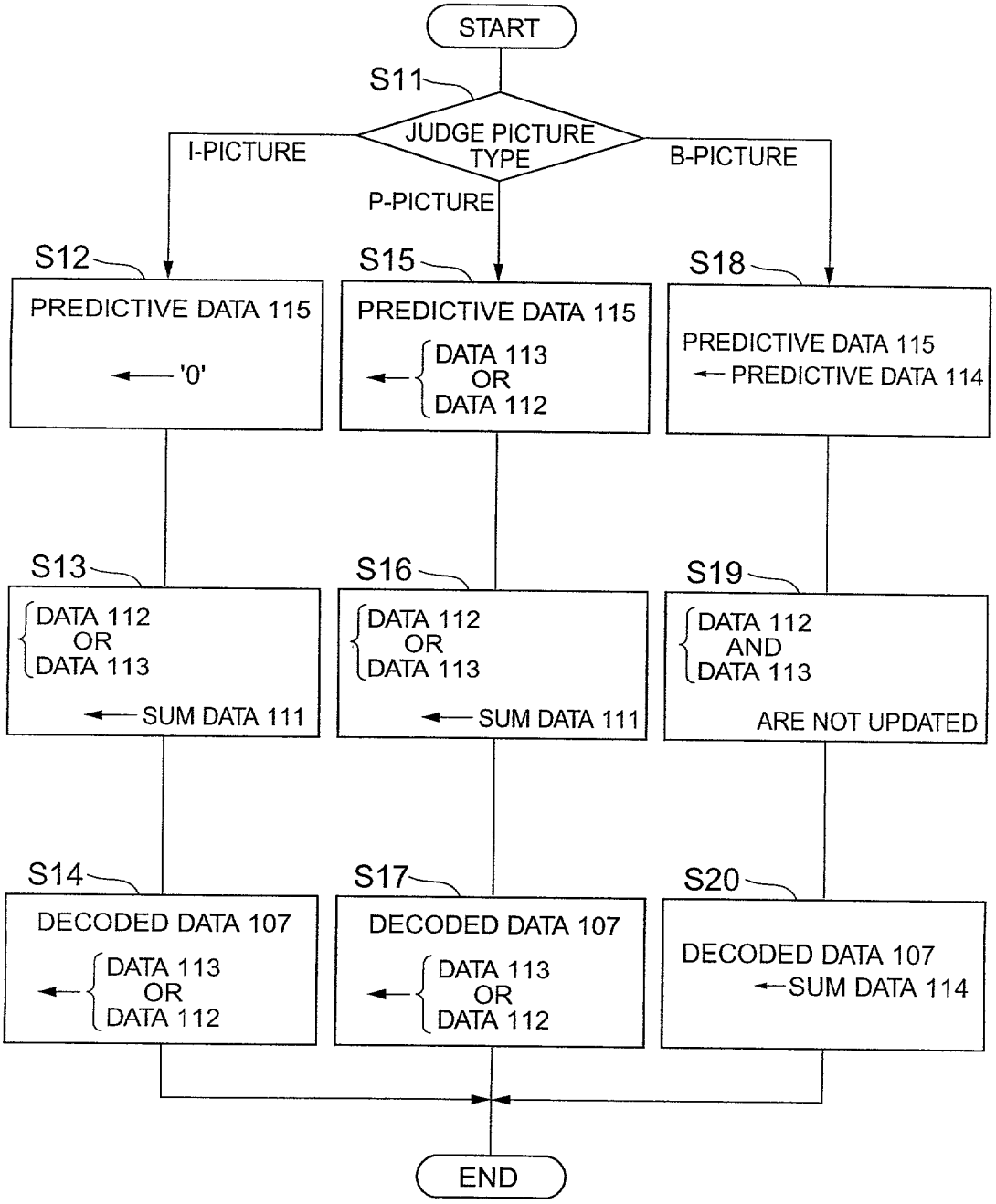

START
S11
JUDGE PICTURE TYPE
I-PICTURE
P-PICTURE
B-PICTURE
S12
PREDICTIVE DATA 115
'0'
S15
PREDICTIVE DATA 115
DATA 113
OR
DATA 112
S18
PREDICTIVE DATA 115
PREDICTIVE DATA 114
S13
DATA 112
OR
DATA 113
SUM DATA 111
S16
DATA 112
OR
DATA 113
SUM DATA 111
S19
DATA 112
AND
DATA 113
ARE NOT UPDATED
S14
DECODED DATA 107
DATA 113
OR
DATA 112
S17
DECODED DATA 107
DATA 113
OR
DATA 112
S20
DECODED DATA 107
SUM DATA 114
END

FIG. 7

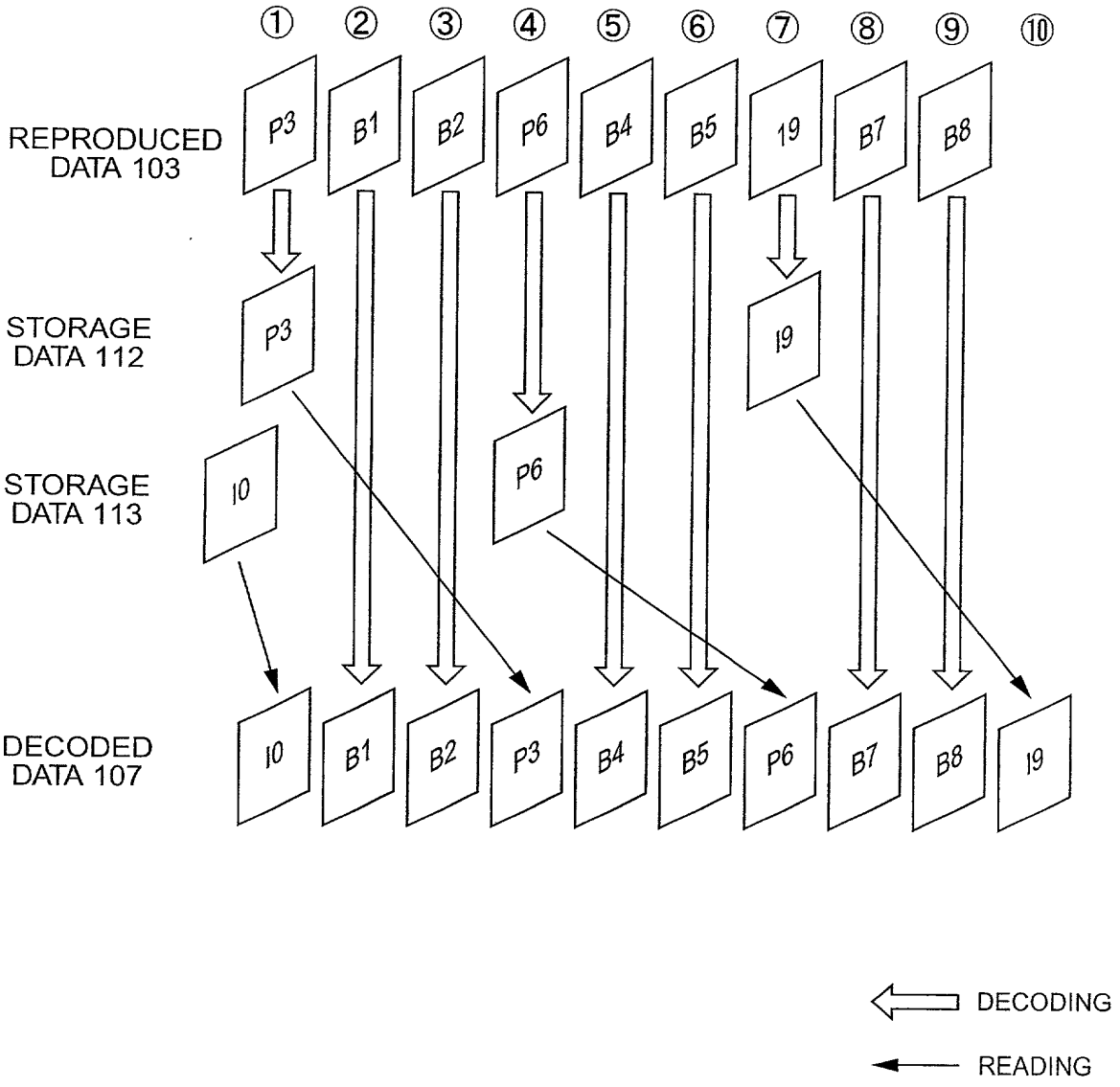

①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
REPRODUCED DATA 103
P3
B1
B2
P6
B4
B5
I9
B7
B8
STORAGE DATA 112
P3
I9
STORAGE DATA 113
I0
P6
DECODED DATA 107
I0
B1
B2
P3
B4
B5
P6
B7
B8
I9
DECODING
READING

FIG. 8

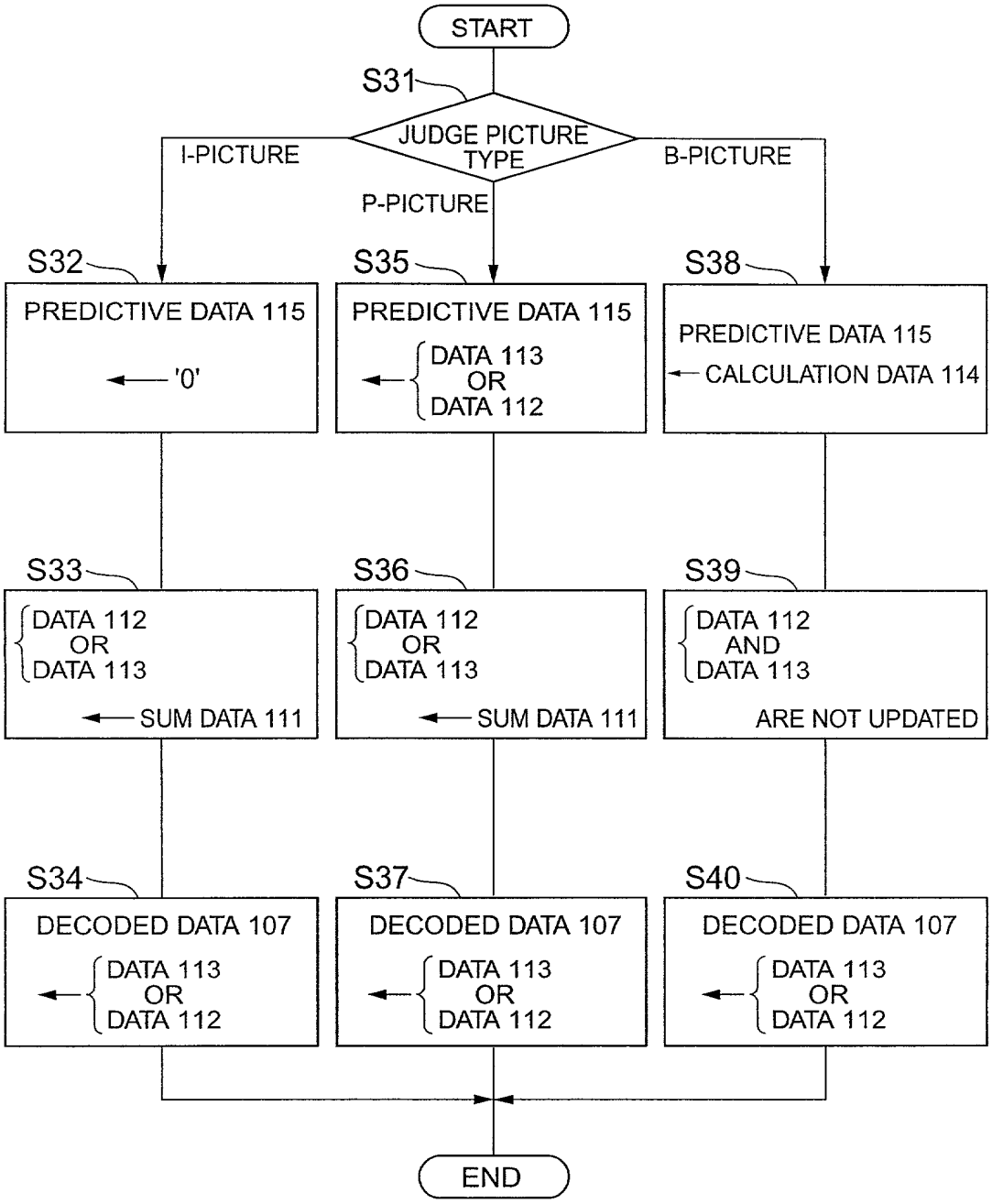

START
S31
JUDGE PICTURE TYPE
I-PICTURE
P-PICTURE
B-PICTURE
S32
PREDICTIVE DATA 115
'0'
S35
PREDICTIVE DATA 115
DATA 113
OR
DATA 112
S38
PREDICTIVE DATA 115
CALCULATION DATA 114
S33
DATA 112
OR
DATA 113
SUM DATA 111
S36
DATA 112
OR
DATA 113
SUM DATA 111
S39
DATA 112
AND
DATA 113
ARE NOT UPDATED
S34
DECODED DATA 107
DATA 113
OR
DATA 112
S37
DECODED DATA 107
DATA 113
OR
DATA 112
S40
DECODED DATA 107
DATA 113
OR
DATA 112
END

FIG. 9

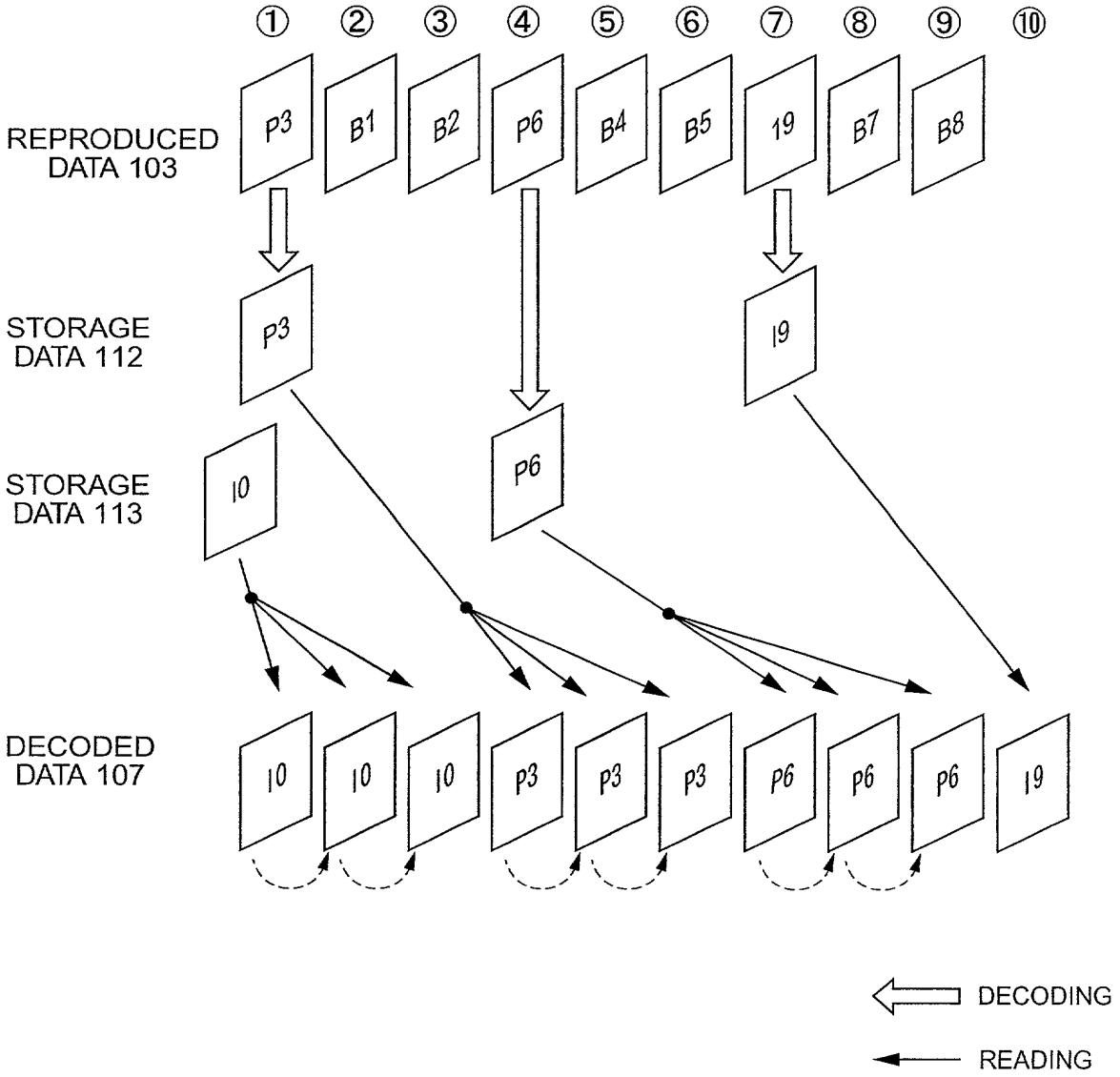

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
REPRODUCED DATA 103
P3 B1 B2 P6 B4 B5 I9 B7 B8
STORAGE DATA 112
P3 I9
STORAGE DATA 113
I0 P6
DECODED DATA 107
I0 I0 I0 P3 P3 P3 P6 P6 P6 I9
DECODING
READING

FIG. 10

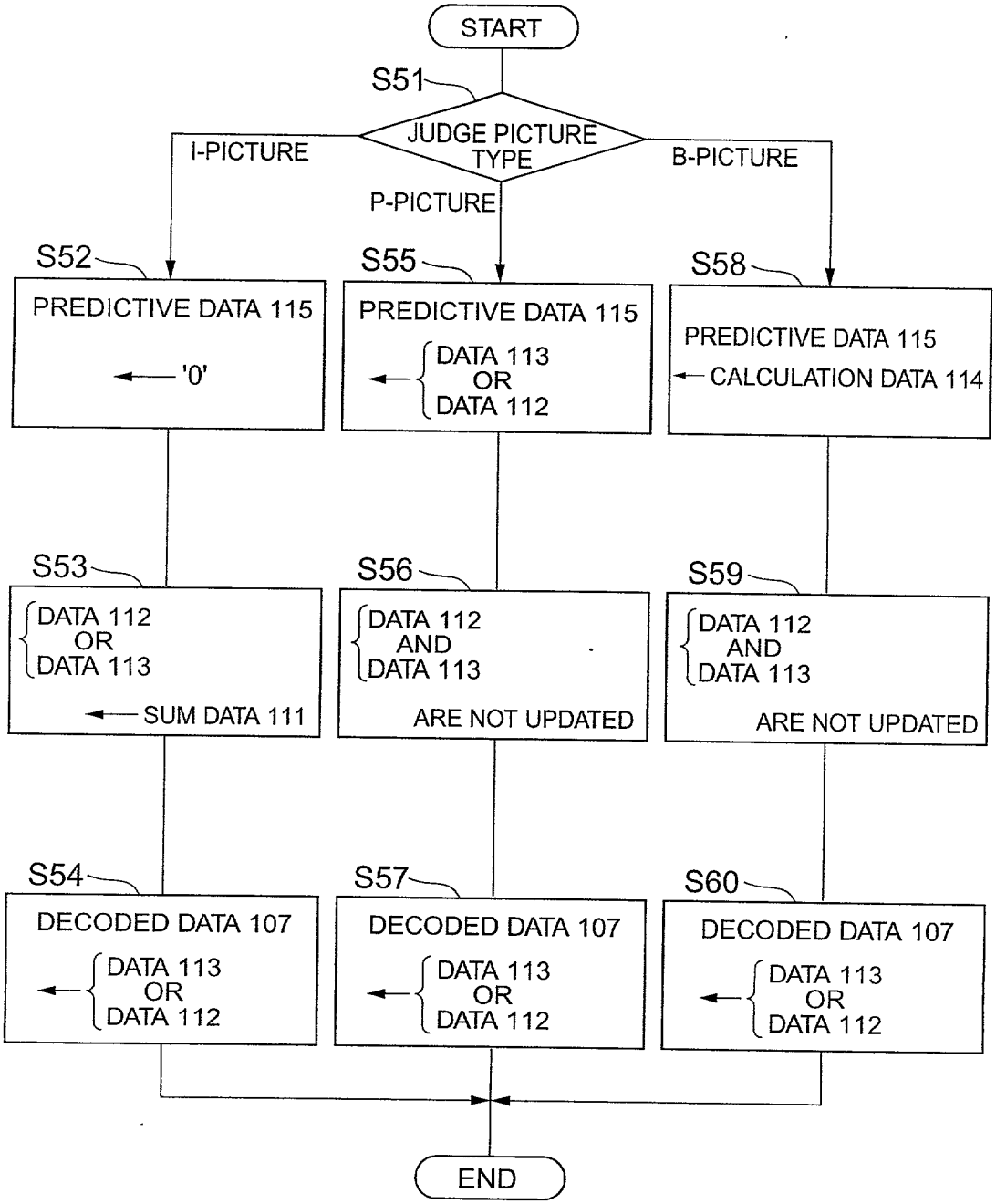
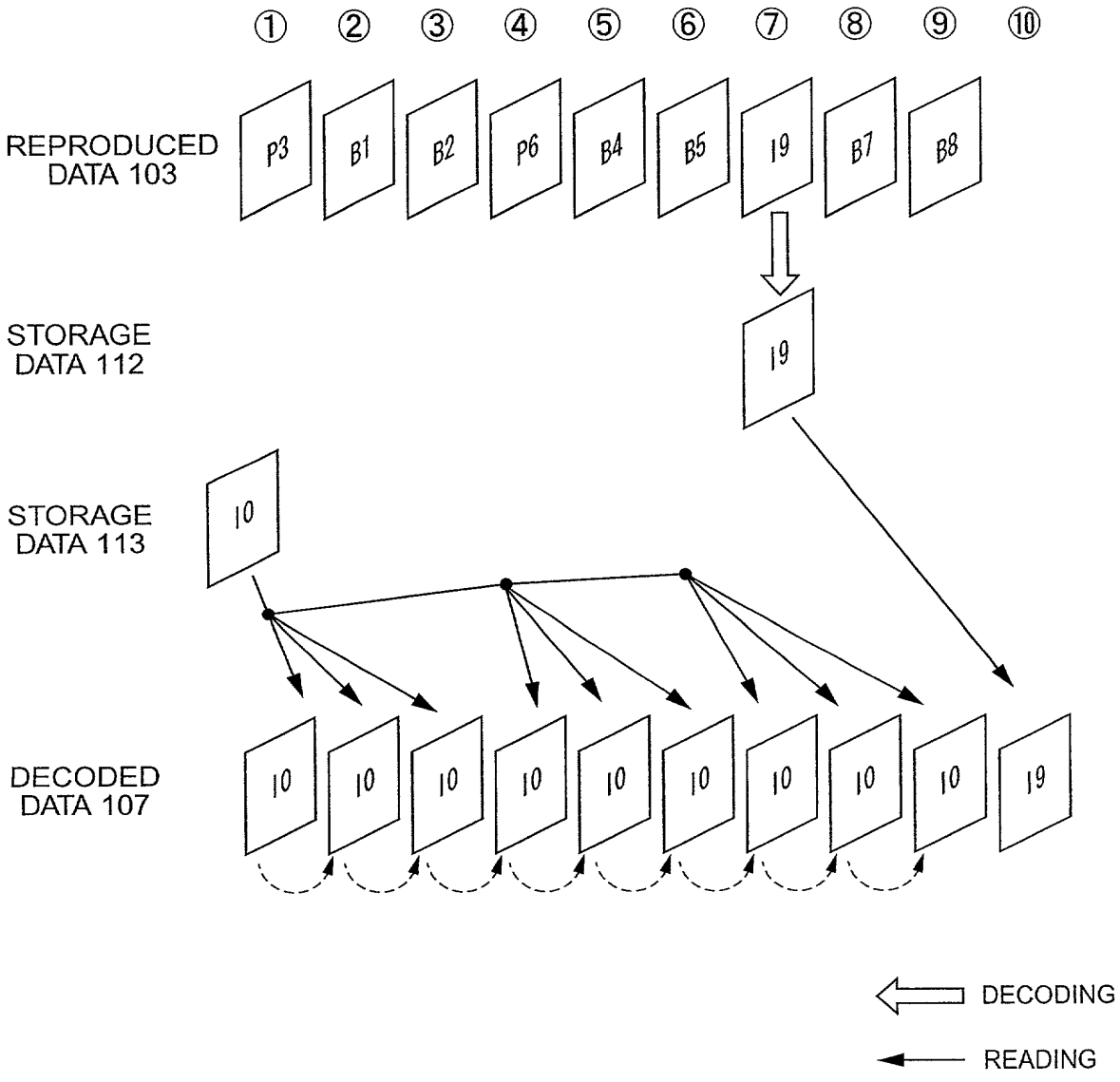

START
S51
JUDGE PICTURE TYPE
I-PICTURE
P-PICTURE
B-PICTURE
S52
PREDICTIVE DATA 115
'0'
S55
PREDICTIVE DATA 115
DATA 113 OR DATA 112
S58
PREDICTIVE DATA 115
CALCULATION DATA 114
S53
DATA 112 OR DATA 113
SUM DATA 111
S56
DATA 112 AND DATA 113
ARE NOT UPDATED
S59
DATA 112 AND DATA 113
ARE NOT UPDATED
S54
DECODED DATA 107
DATA 113 OR DATA 112
S57
DECODED DATA 107
DATA 113 OR DATA 112
S60
DECODED DATA 107
DATA 113 OR DATA 112
END

FIG. 11


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
REPRODUCED DATA 103
P3
B1
B2
P6
B4
B5
I9
B7
B8
STORAGE DATA 112
I9
STORAGE DATA 113
I0
DECODED DATA 107
I0
I0
I0
I0
I0
I0
I0
I0
I0
I9
DECODING
READING